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distant.

B05 C03

*JP 2003055340-A DAIK 2001.08.10

B(10-A10, 10-F2) C(10-A10, 10-F2) .2

New alpha, DAIKIN KOGYO KK intermediates 2003-473339/45

electronic material, has reduced dielectric constant, low refractive index, and good chemical stability 321/28, 317/24, 321/20, 321/22 2001.08.10 2001-244545(+2001JP-244545) (2003.02.26) C07C for alpha-difluoro pharmaceuticals, photoacid sulfoxide compound generator used

and

n = 0-2.

When n is 0 or 2, both R¹ and R² are phenyl groups. When n is 0, R¹ is

 R^2 = optionally substituted alkyl or optionally substituted aryl; and

optionally substituted cycloalkyl;

methyl, p-chlorophenyl, or ethyl and R² is a substituted benzene

NOVELTY

C2003-127189

An α , α -diffuoro sulfoxide compound (I), is new

DETAILED DESCRIPTION

An α,α-difluoro sulfoxide compound having formula (I), is new.

R' = optionally substituted alkyl, optionally substituted aryl or \equiv

> difluorophenyi. compound having formula (II), tert-butyl, 3,5- difluorophenyl or 2,4-

INDEPENDENT CLAIMS are included for the following: Y^1 , $Y^2 = H$, halogen or trifluoromethyl. α,α- difluoro sulfoxide compound having formula (III); \equiv

(3) α,α-difluoro sulfone compound having formulae (VI,VIII,X and (2) α, α -difluoro sulfoxide compound having formula (IV); JP 2003055340-A+

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(V,VII,IX and XI);XII) and lpha,lpha-difluoro sulfide compound having formulae

(4) pharmaceutical and agrochemical intermediate;(5) photoacid generator (intermediate);

(6) electronic material (intermediate);

(8) polymerization catalyst (intermediate). liquid crystal material (intermediate); and

 R^3 = optionally substituted 1-10C alkyl or optionally substituted 3- $Y^3-Y^5=H$, halogen, optionally substituted 1-10C alkyl, optionally substituted 1-10C alkoxy, optionally substituted 3-10C cycloalkyl or optionally substituted 6-12C aryl;

JP 2003055340-A+/1



2003-473339/45

l0C cycloalkyl;

 $\mathbf{Y}^7 = \mathbf{Y}^3 - \mathbf{Y}^5$

trifluoromethyl or fluorine. is methyl or ethyl, and \dot{Y}^6 and \dot{Y}^7 are hydrogen atoms, halogen, 3 , Y⁴ and Y⁵ are not hydrogen atoms simultaneously. When n is 0, R³

USE

generator, electronic material, liquid crystal material and polymerization catalyst (all claimed). As intermediates for pharmaceuticals, agrochemicals, photoacid

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ADVANTAGE

suppression, suppression of adverse reaction and mimic effect, when sulfone compounds show active effect improvement, metabolism stability with respect to oxidation. reduced dielectric constant, low refractive index, and good chemical used as intermediates. The compound has high substituent effect, The α,α -difluoro sulfoxide, α,α -difluoro sulfide and α,α -difluoro

> and sodium hydroxide (14.4) dissolved in 174:87 solution of methanol compound having formula (27) was obtained at an yield of 89 % and water, stirred at room temperature and extracted with ether. A methanol and mixed with a mixture containing 46 ml of thiophenol <u></u>e

O-methyl phenacyl bromide (in g) (60) was dissolved in 270 ml of

(25pp3288DwgNo.0/0)

JP 2003055340-A/2

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